

# $E_t^{\text{miss}}$ for QCD 2-jet events

with  $< 17.3>$  min. bias events superimposed

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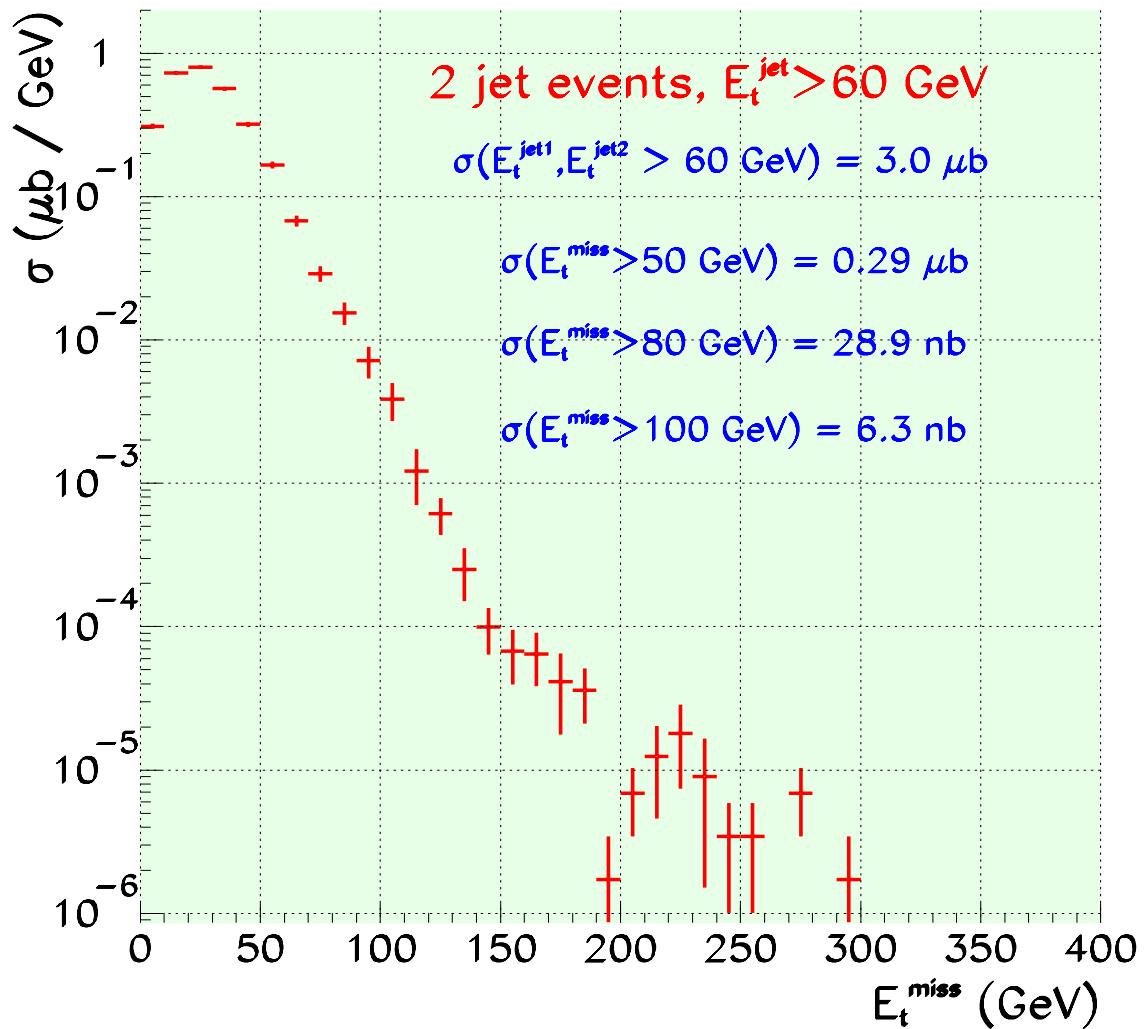
- ORCA reconstruction

$E_t^{\text{miss}}$  and jets reconstructed from ECAL+HCAL towers  
Digits with  $E > 0.1$  GeV (0.3 GeV for endcap crystals)  
included to reconstruct the towers

- Event generation with several  $p_t^{\text{jet}}$  bins:

$p_t$ bin (GeV)	Events	$\sigma[\mu\text{b}]$
50 - 80	25000	21.2
80 - 120	9072	3.1
120 - 170	2000	$5.41 \cdot 10^{-1}$
170 - 230	1280	$1.15 \cdot 10^{-1}$
230 - 300	1200	$2.66 \cdot 10^{-2}$
300 - 380	999	$7.28 \cdot 10^{-3}$
380 - 470	1200	$2.06 \cdot 10^{-3}$

## $E_t^{\text{miss}}$ for QCD 2-jet events with $\langle 17.3 \rangle$ min. bias events superimposed

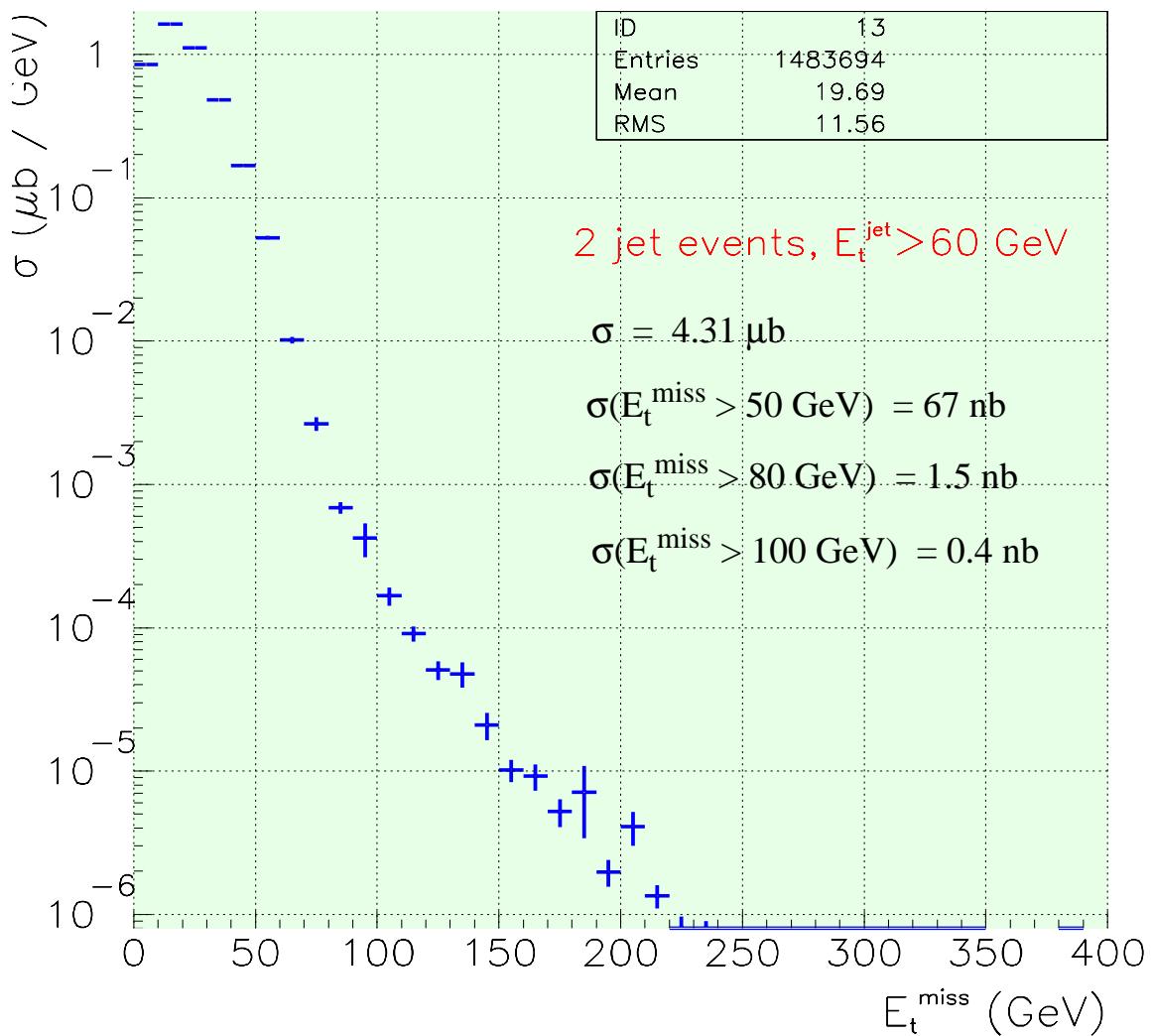


Rejection factor from  $E_t^{\text{miss}}$  cut:

$E_t^{\text{miss}} > 50 \text{ GeV}$	10
$E_t^{\text{miss}} > 80 \text{ GeV}$	104
$E_t^{\text{miss}} > 100 \text{ GeV}$	476

# $E_t^{\text{miss}}$ for QCD 2-jet events with $< 17 >$ min. bias events superimposed with

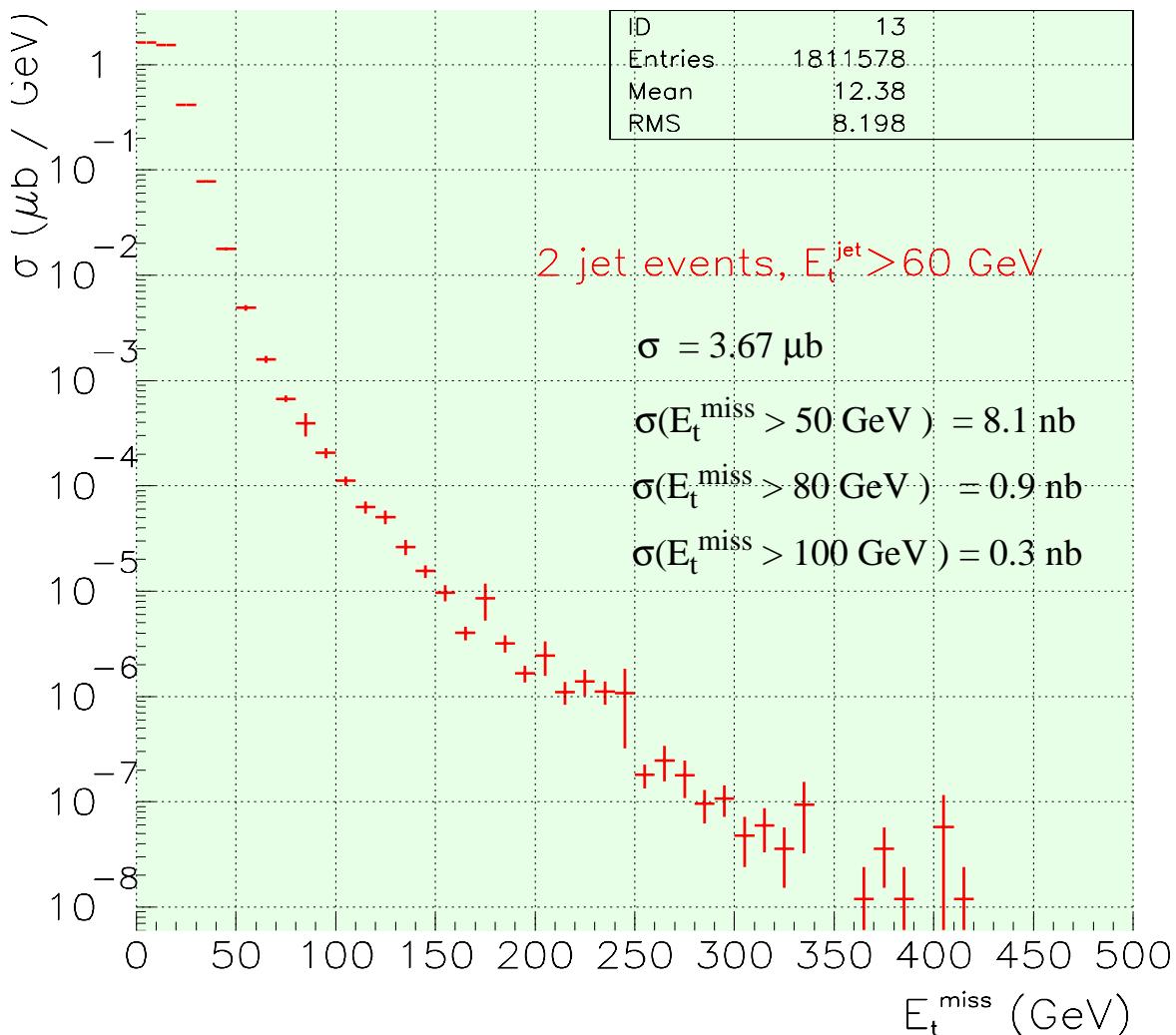
**CMSJET**



Rejection factor from  $E_t^{\text{miss}}$  cut:

$E_t^{\text{miss}} > 50 \text{ GeV}$	64
$E_t^{\text{miss}} > 80 \text{ GeV}$	2900
$E_t^{\text{miss}} > 100 \text{ GeV}$	10300

$E_t^{\text{miss}}$  for QCD 2-jet events with  $< 2 >$   
 min. bias events superimposed with  
**CMSJET**

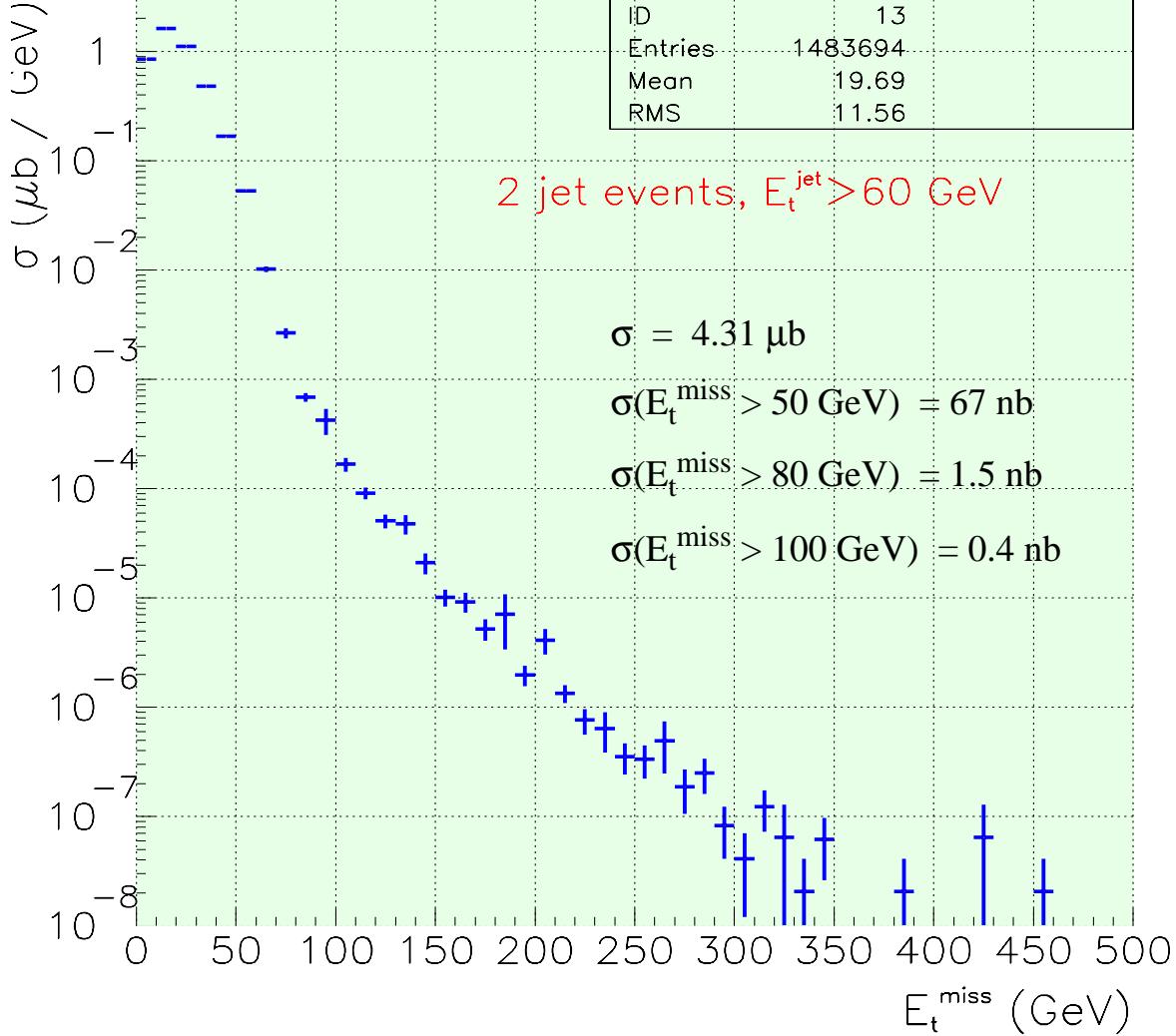


Rejection factor from  $E_t^{\text{miss}}$  cut:

$E_t^{\text{miss}} > 50 \text{ GeV}$	450
$E_t^{\text{miss}} > 80 \text{ GeV}$	4100
$E_t^{\text{miss}} > 100 \text{ GeV}$	12000

$E_t^{\text{miss}}$  for QCD 2-jet events with  $< 17 >$   
min. bias events superimposed with

**CMSJET**



Rejection factor from  $E_t^{\text{miss}}$  cut:

$E_t^{\text{miss}} > 50 \text{ GeV}$	64
$E_t^{\text{miss}} > 80 \text{ GeV}$	2900
$E_t^{\text{miss}} > 100 \text{ GeV}$	10300